SEQUENCE LISTING

<110> Wang, Ming Bo
Helliwell, Christopher Andrew
Waterhouse, Peter Michael

<120> Efficient gene silencing in plants using short dsRNA sequences

<130> 021565-156

<140> US 10/780,638
<141> 2004-02-19

<150> US 60/447,711
<151> 2003-02-19

<160> 33

<170> PatentIn version 3.1

<210> 1
<211> 341
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the 7SL-2 gene of Arabidopsis thaliana var. Landsberg erecta

<220>
<221> misc_feature
<222> (1)..(6)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (7)..(322)
<223> PolIII promoter region

<220>
<221> misc_feature
<222> (336)..(341)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (329)..(335)
<223> poly T nucleotide stretch

<220>
<221> misc_feature
<222> (323)..(328)
<223> SalI restriction site

<400> 1

ctcgagatgt tgttgttacc agaaagtaaa taaatgttca atctctgatg ttctcaagta 60
agtgagtttt attgggaata atattaactc atgttcttct gcatttgatt cctttgccgc 120
tctcttcttc tatcttaaat ctgtgtatac tatttcacta ttgggctttt tattagtcta 180
taatgggact caaaataagg ctttggccca catcaaaaag ataagtcaca aatcaaaact 240
aaattcagag tcttttctcc cacatcggtc actgtactca ttttgtgttt gtttatatat 300
tacacgaacc gatctttgtt acgtcgactt tttttctcga g 341

<210> 2
<211> 429
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the 7SL-2 gene of Arabidopsis thaliana var. Landsberg erecta including 86 bases downstream of the transcription initiation site.

<220>
<221> misc_feature
<222> (1)..(6)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (424)..(429)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (415)..(423)
<223> poly T stretch

<220>
<221> misc_feature
<222> (409)..(414)
<223> SalI restriction site

<220>
<221> misc_feature
<222> (7)..(408)
<223> PolIII promoter region.

<400> 2

ctcgagatgt tgttgttacc agaaagtaaa taaatgttca atctctgatg ttctcaagta 60
agtgagtttt attgggaata atattaactt atgttcttct tgcatttgat ttctttgccg 120
ctctcttctt ctatcttaaa tctgtgtata ctatttcact attgggcttt ttattagtct 180
ataatgggac tcaaaataag gctttggccc acatcaaaaa gataagtcac aaatcaaaac 240
taaattcaga gtcttttctc ccacatcggt cactgtactc ttttgtgttt gtttatatat 300
tacacgaacc gatctttggt acgtcgagct aagtaacatg agcttgtaac ccatgtgggg 360
acattaagat ggtggaacac tggctcgggt ccacgggccg gttctgttgt cgacttttt 420
tttctcgag 429

<210> 3
<211> 334
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the U3 snRNA of Arabidopsis thaliana var. Landsberg erecta
<220>
<221> misc_feature
<222> (1)..(6)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (314)..(319)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (320)..(328)
<223> poly T stretch

<220>
<221> misc_feature
<222> (329)..(334)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (7)..(313)
<223> Pol III promoter region

<400> 3

gaattcttat gcagcctgtg atggataact gaatcaaaca aatggcgtct gggtttaaga 60
agatctgttt tggctatgtt ggacgaaaca agtgaacttt taggatcaac ttcagtttat 120
atatggagct tatatcgagc aataagataa gtgggctttt tatgtaattt aatgggctat 180
cgtccataga ttcactaata cccatgccca gtacccatgt atgcgtttca tataagctcc 240
taatttctcc cacatcgctc aaatctaaac aaatcttgtt gtatatataa cactgaggga 300
gcaacattgg tcacgatcgt ttttttttga attc 334

<210> 4
<211> 467
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the U3 snRNA gene of Arabidopsis thaliana var. Landsberg erecta including 136 bases downstream of the transcription initiation site.

<220>
<221> misc_feature
<222> (1)..(6)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (7)..(446)
<223> Pol III promoter region

<220>

<221> misc_feature
<222> (447)..(452)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (453)..(461)
<223> poly T stretch

<220>
<221> misc_feature
<222> (462)..(467)
<223> EcoRI restriction site

<400> 4

gaattcttat gcagcctgtg atggataact gaatcaaaca aatggcgtct gggtttaaga 60
agatctgttt tggctatgtt ggacgaaaca agtgaacttt taggatcaac ttcagtttat 120
atatggagct tatatcgagc aataagataa gtgggctttt tatgtaattt aatgggctat 180
cgtccataga ttcactaata cccatgccca gtacccatgt atgcgtttca tataagctcc 240
taatttctcc cacatcgctc aaatctaaac aaatcttgtt gtatatataa cactgaggga 300
gcaacattgg tcacgacctt acttgaacag gatctgttct ataggctcgt acctctgttt 360
ccttgatttc tcaagagaca ggcccttaac cctggttgat gaaccatgac cgtgcggcta 420
gagcgtgatt gacggctacg atcgtcctcg agttttttt tgaattc 467

<210> 5
<211> 456
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the U6 snRNA gene of Arabidopsis thaliana var. Landsberg erecta including 3 bases downstream of the transcription initiation site
<220>
<221> misc_feature
<222> (1)..(6)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (7)..(436)
<223> Pol III promoter region

<220>
<221> misc_feature
<222> (437)..(442)
<223> SalI restriction site

<220>
<221> misc_feature
<222> (443)..(450)
<223> poly T stretch

<220>
<221> misc_feature
<222> (451)..(456)
<223> Sac I restriction site

<400> 5

ctcgagcttc gttgaacaac ggaaactcga cttgccttcc gcacaataca tcatttcttc 60
ttagcttttt ttcttcttct tcgttcatac agtttttttt tgtttatcag cttacatttt 120
cttgaaccgt agctttcgtt ttcttctttt taactttcca ttcggagttt ttgtatcttg 180
tttcatagtt tgtcccagga ttagaatgat taggcatcga accttcaaga atttgattga 240
ataaaacatc ttcattctta agatatgaag ataatcttca aaaggcccct gggaatctga 300
aagaagagaa gcaggcccat ttatatggga aagaacaata gtatttctta tataggccca 360
tttaagttga aaacaatctt caaaagtccc acatcgctta gataagaaaa cgaagctgag 420
tttatataca gctagagtcg acttttttgt gagctc 456

<210> 6
<211> 488
<212> DNA
<213> Artificial Sequence
<220>
<223> sequence of the promoter of the U3 snRNA gene of Arabidopsis thaliana var. Landsberg erecta including 20 bases downstream of the transcription initiation site

<220>
<221> misc_feature
<222> (1)..(6)
<223> XhoI restriction site

<220>
<221> misc_feature
<222> (7)..(468)
<223> Pol III promoter region

<220>
<221> misc_feature
<222> (469)..(474)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (475)..(482)
<223> Poly T stretch

<220>
<221> misc_feature
<222> (483)..(488)
<223> XhoI restriction site

<400> 6

ctcgagcttc gttgaacaac ggaaactcga cttgccttcc gcacaataca tcatttcttc 60
ttagcttttt ttcttcttct tcgttcatac agtttttttt tgtttatcag cttacatttt 120
cttgaaccgt agctttcgtt ttcttctttt taactttcca ttcggagttt ttgtatcttg 180
tttcatagtt tgtcccagga ttagaatgat taggcatcga accttcaaga atttgattga 240
ataaaacatc ttcattctta agatatgaag ataatcttca aaaggcccct gggaatctga 300
aagaagagaa gcaggcccat ttatatggga aagaacaata gtatttctta tataggccca 360
tttaagttga aaacaatctt caaaagtccc acatcgctta gataagaaaa cgaagctgag 420
tttatataca gctagagtcg aagtagtgat tgtcccttcg gggacatccg atcgtttttt 480
ttctcgag 488

<210> 7
<211> 405
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the U3 snRNA of rice (Oryza sativa Indica IR36)

<220>
<221> misc_feature
<222> (1)..(6)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (7)..(384)
<223> Pol III promoter region

<220>
<221> misc_feature
<222> (385)..(390)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (391)..(399)
<223> poly T stretch

<220>
<221> misc_feature
<222> (400)..(405)
<223> EcoRI restriction site

<400> 7

gaattcaagg gatctttaaa catacgaaca gatcacttaa agttcttctg aagcaactta 60
aagttatcag gcatgcatgg atcttggagg aatcagatgt gcagtcaggg accatagcac 120
aggacaggcg tcttctactg gtgctaccag caaatgctgg aagccgggaa cactgggtac 180
gttggaaacc acgtgatgtg gagtaagata aactgtagga gaaaagcatt tcgtagtggg 240
ccatgaagcc tttcaggaca tgtattgcag tatgggccgg cccattacgc aattggacga 300
caacaaagac tagtattagt accacctcgg ctatccacat agatcaaagc tggtttaaaa 360
gagttgtgca gatgatccgt ggcacgatcg ttttttttg aattc 405

<210> 8
<211> 442
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the promoter of the U3 snRNA of tomato (a garden variety with small gourd-shaped yellow fruit)

<220>
<221> misc_feature
<222> (1)..(6)
<223> EcoRI restriction site

<220>
<221> misc_feature
<222> (7)..(421)
<223> Pol III promoter region

<220>
<221> misc_feature
<222> (422)..(427)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (428)..(436)
<223> Poly T stretch

<220>
<221> misc_feature
<222> (437)..(442)
<223> EcoRI restriction site

<400> 8

gaattctgag agcattgtgt ggcgttcctc tgaattactt actgtcactt tgattggagc 60
cattattttc agactctact gaagattgaa ttgaatgaga aactatgaaa ctttacaagt 120
gaattattat ggagttcatg gcaactgcta tggagttttt cctactggga attggaacgg 180
tttctacgaa attaactgtc cacacgttaa aaatataaat taatgcgtaa ttgttatttt 240
ttctataaca aataaaaaac tgaaatacga cataaatttt attactttaa ttgcacttta 300
gccttagaga tattgcgttg tagtcggcgt aggtgtgtca ggggccaata tattgttccc 360
acatcggcag tgcagcacat aaactctagc gttataagaa tctatccact atcaacggtc 420
acgatcgttt ttttttgaat tc 442

<210> 9
<211> 295
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 94bp for silencing expression of the GUS gene (GUShp94)

<220>
<221> misc_feature
<222> (1)..(6)
<223> SalI restriction site

<220>
<221> misc_feature
<222> (6)..(11)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (12)..(100)
<223> GUS sequence (sense)

<220>
<221> misc_feature
<222> (101)..(195)

<223> spacer sequence

<220>
<221> misc_feature
<222> (190)..(195)
<223> BamHI restriction site

<220>
<221> misc_feature
<222> (196)..(284)
<223> GUS sequence (antisense)

<220>
<221> misc_feature
<222> (285)..(290)
<223> PvuI restriction site

<220>
<221> misc_feature
<222> (290)..(295)
<223> SalI restriction site

<400> 9

gtcgacgatc gcagcgtaat gctctacacc acgccgaaca cctgggtgga cgatatcacc 60
gtggtgacgc atgtcgcgca agactgtaac cacgcgtctg ttgactggca ggtggtggcc 120
aatggtgatg tcagcgttga actgcgtgat gcggatcaac aggtggttgc aactggacaa 180
ggcactagcg ggatccagac gcgtggttac agtcttgcgc gacatgcgtc accacggtga 240
tatcgtccac ccaggtgttc ggcgtggtgt agagcattac gctgcgatcg tcgac 295

<210> 10
<211> 93
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 41 bp for silencing expression of the GUS gene (GUShp41)
<220>
<221> misc_feature
<222> (1)..(6)
<223> SalI restriction site

<220>
<221> misc_feature
<222> (7)..(42)
<223> GUS sequence (sense)

<220>
<221> misc_feature
<222> (43)..(51)
<223> spacer sequence

<220>
<221> misc_feature
<222> (52)..(87)
<223> GUS sequence (antisense)

<220>
<221> misc_feature
<222> (88)..(93)
<223> Sal I restriction site

<400> 10

gtcgactggg cagatgaaca tggcatcgtg gtgattgatg aatgcgagaa cttcatcaat 60
caccacgatg ccatgttcat ctgcccagtc gac 93

<210> 11
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the GUS gene (GUShp21)

<220>
<221> misc_feature
<222> (1)..(6)
<223> SalI restriction site

<220>
<221> misc_feature
<222> (7)..(22)
<223> GUS sequence (sense)

<220>
<221> misc_feature
<222> (23)..(28)
<223> spacer sequence

<220>
<221> misc_feature
<222> (29)..(44)
<223> GUS sequence (antisense)

<220>
<221> misc_feature
<222> (45)..(50)
<223> Sal I restriction site

<400> 11

gtcgactggg cagatgaaca tgtacgatca tgttcatctg cccagtcgac 50

<210> 12
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PHYB gene, derived from the 5' end of PHYB (PHYB5hp 42)-upper strand

<400> 12

tcgacggagt cgggggtagt ggcggtggcc gtggcggtgg ccgtggagga ggccacggcc 60
accgccacgg ccaccgccac taccccgac tccg 94

<210> 13
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PHYB gene, derived from the 5' end of PHYB (PHYB5hp 42)-lower strand

<400> 13

tcgacggagt cgggggtagt ggcggtggcc gtggcggtgg ccgtggcctc ctccacggcc 60
accgccacgg ccaccgccac taccccgac tccg 94

<210> 14
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the 5' end of PHYB (PHYB5hp 21)-upper strand

<400> 14

tcgacggagt cgggggtagt ggcggaggag gccgccacta cccccgactc cg 52

<210> 15
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the 5' end of PHYB (PHYB5hp 21)-lower strand

<400> 15

tcgacggagt cgggggtagt ggcggcctcc tccgccacta cccccgactc cg 52

<210> 16
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PHYB gene, derived from the center of PHYB (PHYBChp 42)-upper strand

<400> 16

tcgatggatg gtgtggttca gccatgtagg gatatggcgg gggaacagga gggttccccc 60
gccatatccc tacatggctg aaccacacca tcca 94

<210> 17
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PHYB gene, derived from the center of PHYB (PHYBChp 42)-lower strand

<400> 17

tcgatggatg gtgtggttca gccatgtagg gatatggcgg gggaaccctc ctgttccccc 60
gccatatccc tacatggctg aaccacacca tcca 94

<210> 18
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the center of PHYB (PHYBChp 21)-upper strand

<400> 18

tcgatggatg gtgtggttca gccataggag gatggctgaa ccacacctcc aa 52

<210> 19
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the center of PHYB (PHYBChp 21)-lower strand

<400> 19

tcgatggatg gtgtggttca gccatcctcc tatggctgaa ccacaccatc ca 52

<210> 20
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing

expression of the PHYB gene, derived from the 3' end of PHYB (PHYB3hp 42)-upper strand

<400> 20

tcgacattgt caactgctag tggaagtggt gacatgatgc tgatgaagga ggtcatcagc 60
atcatgtcac cacttccact agcagttgac aatg 94

<210> 21
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PHYB gene, derived from the 3' end of PHYB (PHYB3hp 42)-lower strand

<400> 21

tcgacattgt caactgctag tggaagtggt gacatgatgc tgatgacctc cttcatcagc 60
atcatgtcac cacttccact agcagttgac aatg 94

<210> 22
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the 3' end of PHYB (PHYB3hp 21)-upper strand

<400> 22

tcgacattgt caactgctag tggaaaggag gttccactag cagttgacaa tg 52

<210> 23
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PHYB gene, derived from the 3' end of PHYB (PHYB3hp 21)-lower strand

<400> 23

tcgacattgt caactgctag tggaacctcc tttccactag cagttgacaa tg 52

<210> 24
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PDS gene (PDS42)-upper strand

<400> 24

tcgacttaac ttgtaaggaa tattacgatc ctaaccggtc aatgctagga ggagcattga 60
ccggttagga tcgtaatatt ccttacaagt taag 94

<210> 25
<211> 94
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 42 bp for silencing expression of the PDS gene (PDS42)-lower strand

<400> 25

tcgacttaac ttgtaaggaa tattacgatc ctaaccggtc aatgctcctc ctagcattga 60
ccggttagga tcgtaatatt ccttacaagt taag 94

<210> 26
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PDS gene (PDS21)-upper strand

<400> 26

tcgacttaac ttgtaaggaa tattaaggag gtaatattcc ttacaagtta ag 52

<210> 27
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> sequence of the dsRNA encoding region of 21 bp for silencing expression of the PDS gene (PDS21)-lower strand

<400> 27

tcgacttaac ttgtaaggaa tattacctcc ttaatattcc ttacaagtta ag 52

<210> 28
<211> 115
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (GUS_A)

<220>
<221> misc_feature
<222> (1)..(11)
<223> SalI/PvuI restriction sites

<220>
<221> misc_feature
<222> (12)..(53)
<223> sense RNA encoding region

<220>
<221> misc_feature
<222> (54)..(62)
<223> loop structure

<220>
<221> misc_feature
<222> (63)..(104)
<223> antisense RNA encoding region

<220>
<221> misc_feature
<222> (105)..(115)
<223> SalI/PvuI restriction sites

<400> 28

gtcgacgatc gtgcggtcac tcattacggc aaagtgtggg tcaataatca ggagttcctt 60
cttcctgatt attgacccac actttgccgt aatgagtgac cgcagtcgac gatcg 115

<210> 29
<211> 112
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (GUS_B)

<220>
<221> misc_feature
<222> (1)..(8)
<223> SalI/PvuI restriction sites

<220>
<221> misc_feature
<222> (9)..(50)
<223> sense RNA encoding sequence

<220>
<221> misc_feature
<222> (51)..(59)
<223> loop structure

<220>

<221> misc_feature
<222> (60)..(101)
<223> antisense RNA coding region

<220>
<221> misc_feature
<222> (102)..(112)
<223> SalI/pvuI restriction site

<400> 29

gtcgacgatc gtcatgaaga tgcggacttg cgtggcaaag gattcgataa gttccttctt 60
tatcgaatcc tttgccacgc aagtccgcat cttcatgacg agtcgacgat cg 112

<210> 30
<211> 115
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (GUS_C)

<220>
<221> misc_feature
<222> (1)..(11)
<223> SalI/PvuI restriction sites

<220>
<221> misc_feature
<222> (12)..(53)
<223> sense RNA coding region

<220>
<221> misc_feature
<222> (54)..(62)
<223> loop structure

<220>
<221> misc_feature
<222> (63)..(104)
<223> antisense RNA encoding region

<220>
<221> misc_feature
<222> (105)..(115)
<223> SalI/PvuI restriction sites

<400> 30

gtcgacgatc gtgcgacctc gcaaggcata ttgcgcgttg gcggtaacaa gaagttcctt 60
ctttcttgtt accgccaacg cgcaatatgc cttgcgaggt cgcagtcgac gatcg 115

<210> 31
<211> 115
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (EIN_A)

<220>
<221> misc_feature
<222> (1)..(11)
<223> SalI/PvuI restriction sites

<220>
<221> misc_feature
<222> (12)..(53)
<223> sense RNA encoding region

<220>
<221> misc_feature
<222> (54)..(62)
<223> loop structure

<220>
<221> misc_feature
<222> (63)..(104)
<223> antisense RNA encoding region

<220>
<221> misc_feature
<222> (105)..(115)
<223> SalI/PvuI restriction sites

<400> 31

gtcgacgatc gcatcttatg ccaatatgtt gcagctcgca taagcgttgt gacgttcctt 60
ctgtcacaac gcttatgcga gctgcaacat attggcataa gatggtcgac gatcg 115

<210> 32
<211> 112
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (EIN_B)

<220>
<221> misc_feature
<222> (1)..(8)
<223> SalI/PvuI restriction sites

<220>
<221> misc_feature
<222> (9)..(50)
<223> sense RNA coding region

<220>
<221> misc_feature
<222> (51)..(59)
<223> loop structure

<220>

<221> misc_feature
<222> (60)..(101)
<223> antisense RNA coding region

<220>
<221> misc_feature
<222> (102)..(112)
<223> SalI/PvuI restriction site

<400> 32

gtcgacgatc ggcaggcctg gtattacttc tctatgtttc tggcgtcttg gttccttctc 60
aagacgccag aaacatagag aagtaatacc aggcctgccg agtcgacgat cg 112

<210> 33
<211> 115
<212> DNA
<213> Artificial sequence

<220>
<223> small hairpin RNA coding region (EIN_C)

<220>
<221> misc_feature
<222> (1)..(11)
<223> SalI/PvuI restriction site

<220>
<221> misc_feature
<222> (12)..(53)
<223> sense RNA encoding region

<220>
<221> misc_feature
<222> (54)..(62)
<223> loop structure

<220>
<221> misc_feature
<222> (63)..(104)
<223> antisense RNA encoding region

<220>
<221> misc_feature
<222> (105)..(115)
<223> SalI/PvuI restriction site

<400> 33

gtcgacgatc gcatagctgt ttcctgtgtg aaattggtat ccgctcacaa ttcgttcctt 60
ctgaattgtg agcggatacc aatttcacac aggaaacagc tatggtcgac gatcg 115